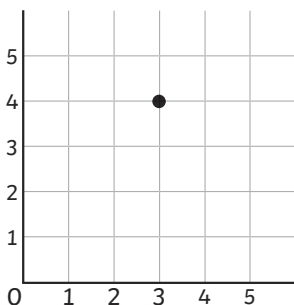


- 1) Ramesh has plotted a coordinate in the first quadrant.



- a) If the coordinate was moved one place to the left, which digit would change?
- b) If the coordinate was moved three places down, which digit would change?
- c) What would the new coordinates be?

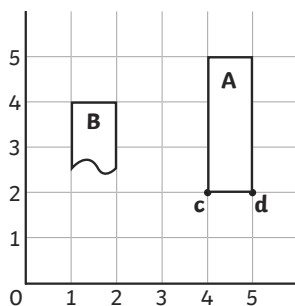


- 2) James has translated rectangle A to its new position, B.

- a) What is the translation?
- b) What are the coordinates of the two missing vertices? Plot and label c and d.

c (,)

d (,)

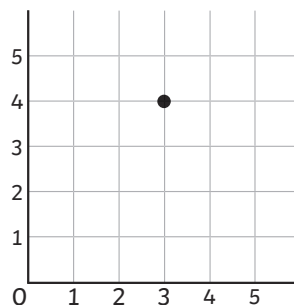


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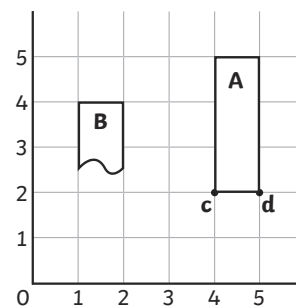


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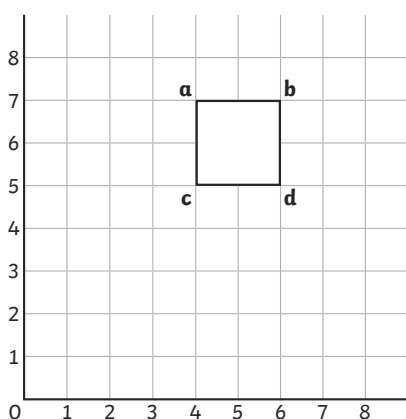
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- 1) Swarvek has plotted the vertices of a square.



True or False?

- a) If the square was translated to the left, the y coordinate would change.
- b) The square has been translated and vertex A is now at (3,3). The translation is (4 down, 1 left).
- c) The square is being translated up and down. The only coordinate to change is the second digit.
- d) The coordinates of the translated square could be (5,6), (6,6), (5,7) and (7,7).



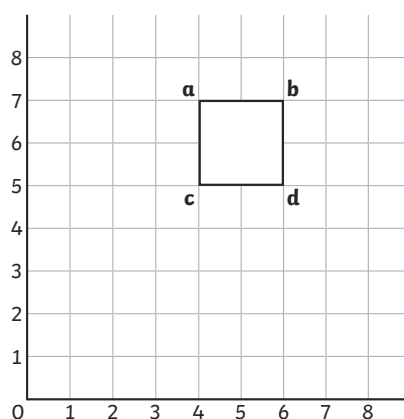
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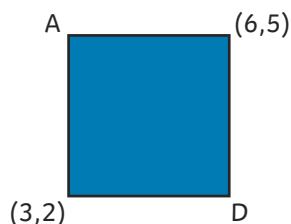
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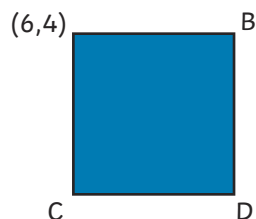
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- 1) Shauna has translated a square in the first quadrant (2 left, 4 down). Here is the translated square. What were the original coordinates of vertex D?



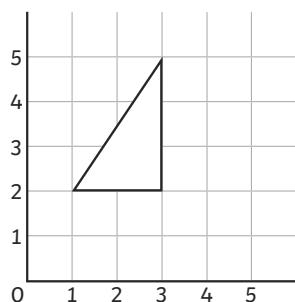
Original coordinates of vertex D (,)

- 2) The same square has now been moved to a different place on the first quadrant. Celia has given one set of coordinates for one of the vertices. Describe the translation.



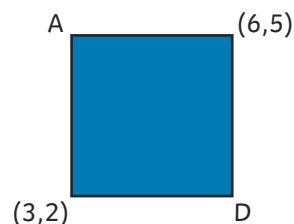
The translation is (,)

- 3) Look at the triangle on the 5×5 grid. How many different ways can you find of translating it so that it moves but stays entirely on the grid? Try to work systematically to find all the possibilities.



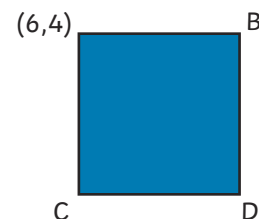
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- 1) Shauna has translated a square in the first quadrant (2 left, 4 down). Here is the translated square. What were the original coordinates of vertex D?



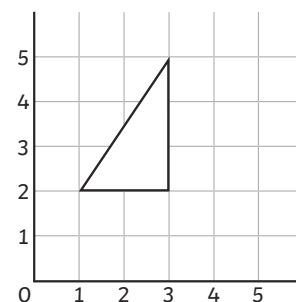
Original coordinates of vertex D (,)

- 2) The same square has now been moved to a different place on the first quadrant. Celia has given one set of coordinates for one of the vertices. Describe the translation.



The translation is (,)

- 3) Look at the triangle on the 5×5 grid. How many different ways can you find of translating it so that it moves but stays entirely on the grid? Try to work systematically to find all the possibilities.



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